Dell Data Engineering Optimize

Online Course

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Course Modules

1. The Role of the Data Engineer
- Describe the skills of a data engineer
- Describe the role of a data engineer in a data analytics project

2. Data Warehousing with SQL and NoSQL
- Chracteristics & perfrmnc considerations of a relational database
- Dscrb relational database schemas and normalization techniques
- Describe use cases and features of various NoSQL tools

3. Extract-Transform-Load (ETL) Offload with Hadoop and Spark
- Describe ETL, ELT, and related schedulers
- Describe the Hadoop ecosystem, HDFS, and data ingestion tools
- Describe Apache Spark and its architecture

4. Data Governance, Security and Privacy for Big Data
- Describe data governance, key roles, and related models
- Describe metadata and Master Data Management
- Describe security considerations with Hadoop and the Cloud
- Describe the uses of Apache Atlas, Ranger, and Knox
- Describe privacy regulations and ethics

5. Processing Streaming and IoT Data

- Describe uses and application of IoT tools
- Describe the Apache Storm system and topology
- Describe the Apache Kafka queueing system and architecture
- Describe Apache Spark - Streaming processing and architecture
- Describe Apache Flink and its architecture
- Describe Pravega and its storage architecture
- Describe EdgeX Foundry and its architecture

6. Building Data Pipelines with Python

- Describe Python, reasons to use, and its libraries
- Describe the use of lists, dictionaries, tuples, sets, and strings
- Describe the use of Apache Airflow
- Describe data pipeline best practices

LEARN REMOTELY!!

The efficiency of online learning in terms of time management, flexibility, and the ability to access resources anytime, anywhere can be compelling.

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